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THIRD YEAR SURVIVAL AND HEIGHTS FOR 1982 PLANTATIONS

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INTRODUCTION

The Timber Management Branch of the New Brunswick Department of Natural Resources and Energy has been assessing survival and growth in plantations on Crown Land since 1977. This summary report presents information on heights and third year survival for 1982 plantations.

The information is presented in tables and graphs and interpretation of data is left to the reader. Description of the methods used can be found in "Third Year Survival and Heights of 1977 Plantations" - copies of which are available upon request from the Timber Management Branch.

Copies of "Third Year Survival and Heights for 1978, 1979, 1980 and 1981 Plantations" are also available upon request from the Timber Management Branch.

TABLE 1-82. NUMBER OF TREES PLANTED AND PERCENT OF PLANTATION AREAS SAMPLED IN EACH LICENSE BY SPECIES, STOCK TYPE AND AREA FOR 1982 PLANTATIONS.

LICENSE		BLACK SPRUCE			WHITE SPRUCE		JACK PINE			RED PINE	EASTERN LARCH	WHITE PINE
		BR[1]	PP[2]	SB[3]	BR	PP	BR	PP	SB	BR	PP	PP
1	Number[4]	194,297	1,065,992	121,840	-	-	-	1,304,958	-	-	89,400	-
	Area[5]	140	577	53	-	-	-	675	-	-	55	-
	%[6]	50	78	50	-	-	-	78	-	-	0	-
2	Number	799,640	1,776,246	-	-	-	-	685,258	-	-	630,642	12,600
	Area	465	888	-	-	-	-	347	-	-	242	6
	%	67	87	-	-	-	-	89	-	-	100	0
3	Number	450,000	1,753,050	-	-	-	-	819,268	-	150,000	-	-
	Area	214	861	-	-	-	-	333	-	77	-	-
	%	100	100	-	-	-	-	67	-	100	-	-
4	Number	-	627,898	-	-	-	-	768,732	-	-	-	-
	Area	-	299	-	-	-	-	342	-	-	-	-
	%	-	75	-	-	-	-	100	-	-	-	-
5	Number	-	-	-	-	-	-	-	-	-	-	-
	Area	-	-	-	-	-	-	-	-	-	-	-
	%	-	-	-	-	-	-	-	-	-	-	-
6	Number	434,770	1,514,488	451,500	596,770	237,246	169,851	2,455,279	-	38,225	-	10,500
	Area	182	600	190	226	91	91	1,087	-	21	-	4
	%	100	77	100	100	80	100	93	-	100	-	0
7	Number	684,837	1,461,915	-	-	-	-	1,436,094	371,160	-	-	-
	Area	319	725	-	-	-	-	625	180	-	-	-
	%	100	100	-	-	-	-	100	75	-	-	-

TABLE 1-82. CONTINUED

LICENSE		BLACK SPRUCE BR[1]	BLACK SPRUCE PP[2]	BLACK SPRUCE SB[3]	WHITE SPRUCE BR	WHITE SPRUCE PP	JACK PINE BR	JACK PINE PP	JACK PINE SB	RED PINE BR	EASTERN LARCH PP	WHITE PINE PP
8	Number[4]	285,739	535,106	-	76,851	204,138	85,378	-	-	249,515	-	-
	Area[5]	112	236	-	29	80	40	-	-	125	-	-
	%[6]	100	80	-	100	100	100	-	-	100	-	-
9	Number	167,963	623,938	-	44,921	-	-	107,342	-	84,314	-	-
	Area	63	299	-	24	-	-	52	-	36	-	-
	%	100	100	-	100	-	-	100	-	100	-	-
10	Number	319,742	2,197,333	-	305,625	689,894	-	-	-	-	18,000	-
	Area	136	944	-	121	256	-	-	-	-	8	-
	%	100	80	-	57	89	-	-	-	-	100	-
Prov.	Number	3,336,988	11,555,966	573,340	1,024,167	1,131,278	255,229	7,576,931	371,160	522,054	738,042	23,100
	Area	1,631	5,429	243	400	427	131	3,461	180	259	305	10
	%	90	86	75	89	90	100	90	75	100	67	50

• JPBR found during Assessment but not reported planted.

[1] Bare Root Stock Type
[2] Paper Pot Stock Type
[3] Styroblock Stock Type
[4] Number of Trees Planted
[5] Area Planted in Hectares
[6] Percent of Areas Sampled

TABLE 2-82. MEAN SURVIVAL IN PERCENT ONE YEAR AND THREE YEARS AFTER PLANTING BY SPECIES AND STOCK TYPE FOR 1982 PLANTATIONS.

LICENSE		BLACK SPRUCE			WHITE SPRUCE		JACK PINE			RED PINE	EASTERN LARCH
		BR[1]	PP[2]	SB[3]	BR	PP	BR	PP	SB	BR	PP
1	1st Year	60	94	-	-	-	-	78	-	-	-
	3rd Year	55	90	-	-	-	-	74	-	-	-
2	1st Year	68	85	-	-	-	-	84	-	-	71
	3rd Year	60	76	-	-	-	-	73	-	-	64
3	1st Year	85	86	-	-	-	-	69	-	66	-
	3rd Year	78	81	-	-	-	-	66	-	46	-
4	1st Year	-	87	-	-	88	100*	88	-	-	-
	3rd Year	-	83	-	-	88	100*	86	-	-	-
5	1st Year	-	-	-	-	-	-	-	-	-	-
	3rd Year	-	-	-	-	-	-	-	-	-	-
6	1st Year	74	87	89	66	83	92	93	-	82	-
	3rd Year	69	83	82	59	87	81	89	-	66	-
7	1st Year	83	79	-	-	-	-	88	89	-	-
	3rd Year	78	74	-	-	-	-	87	84	-	-
8	1st Year	76	79	-	-	-	79	-	-	69	-
	3rd Year	66	72	-	-	-	67	-	-	46	-
9	1st Year	80	86	-	84	-	-	76	-	95	-
	3rd Year	72	77	-	76	-	-	74	-	49	-
10	1st Year	86	92	-	94	85	-	-	-	-	88
	3rd Year	76	79	-	89	69	-	-	-	-	88

TABLE 2-82. CONTINUED.

LICENSE		BLACK SPRUCE			WHITE SPRUCE		JACK PINE			RED PINE	EASTERN LARCH
		BR[1]	PP[2]	SB[3]	BR	PP	BR	PP	SB	BR	PP
Prov.	1st Year	75	86	89	81	85	87	86	89	76	72
	3rd Year	68	79	82	74	70	76	82	84	50	65

[1] Bare Root Stock Type
[2] Paper Pot Stock Type
[3] Styroblock Stock Type
* Results Based on one plot

TABLE 3-82. AVERAGE HEIGHT OF PLANTATION TREES INITIAL, ONE YEAR AND THREE YEARS AFTER PLANTING BY SPECIES AND STOCK TYPE FOR 1982 PLANTATIONS.

LICENSE		BLACK SPRUCE			WHITE SPRUCE		JACK PINE			RED PINE	EASTERN LARCH
		BR[1]	PP[2]	SB[3]	BR	PP	BR	PP	SB	BR	PP
1	Initial[4]	27	14	-	-	-	-	6	-	-	-
	1st Year[5]	32	23	-	-	-	-	14	-	-	-
	3rd Year[6]	49	45	-	-	-	-	58	-	-	-
2	Initial	27	14	-	-	-	-	11	-	-	9
	1st Year	28	21	-	-	-	-	11+	-	-	22
	3rd Year	37	39	-	-	-	-	48	-	-	76
3	Initial	30	11	-	-	-	-	9	-	14	-
	1st Year	33	16	-	-	-	-	18	-	17	-
	3rd Year	50	50	-	-	-	-	70	-	41	-
4	Initial	-	14	-	-	14	15*	9	-	-	-
	1st Year	-	16	-	-	35	38*	16	-	-	-
	3rd Year	-	48	-	-	91	89*	60	-	-	-
5	Initial	-	-	-	-	-	-	-	-	-	-
	1st Year	-	-	-	-	-	-	-	-	-	-
	3rd Year	-	-	-	-	-	-	-	-	-	-
6	Initial	23	9	17	18	11	17	6	-	18	-
	1st Year	27	16	22	22	17	22	16	-	25	-
	3rd Year	43	38	58	36	48	86	63	-	76	-
7	Initial	34	9	-	-	-	-	8	15	-	-
	1st Year	37	16	-	-	-	-	18	25	-	-
	3rd Year	62	39	-	-	-	-	67	83	-	-

TABLE 3-82. CONTINUED

LICENSE		BLACK SPRUCE			WHITE SPRUCE		JACK PINE			RED PINE	EASTERN LARCH
		BR[1]	PP[2]	SB[3]	BR	PP	BR	PP	SB	BR	PP
8	Initial[4]	32	11	-	-	-	17	-	-	20	-
	1st Year[5]	35	15	-	-	-	17*	-	-	19*	-
	3rd Year[6]	61	48	-	-	-	68	-	-	45	-
9	Initial	23	13	-	20	-	-	8	-	20	-
	1st Year	24	21	-	22	-	-	18	-	21	-
	3rd Year	42	50	-	50	-	-	61	-	31	-
10	Initial	31	11	-	28	12	-	-	-	-	28
	1st Year	36	15	-	31	14	-	-	-	-	40
	3rd Year	70	42	-	52	37	-	-	-	-	87
Prov.	Initial	27	11	17	23	12	17	8	15	18	10
	1st Year	31	17	22	26	15	22	16	25	20	23
	3rd Year	49	43	58	46	40	80	62	83	47	77

[1] Bare Root Stock Type
[2] Paper Pot Stock Type
[3] Styroblock Stock Type
[4] Height in cm at time of planting
[5] Height in cm one year after planting
[6] Height in cm three years after planting
* Results based on one plot
+ Rabbit Damage

Table 4-82. PERCENT OF THIRD YEAR ASSESSMENT PLOTS IN EACH DENSITY CLASS* BY LICENSE FOR 1982 PLANTATIONS.

LICENSE	0-1500			1500-3000			3000+		
1	0[a]	100[b]	43[c]	100[a]	0[b]	21[c]	0[a]	0[b]	36[c]
2	11	96	50	89	4	31	0	0	19
3	0	50	10	100	50	30	0	0	60
4	0	100	71	100	0	29	0	0	0
5	-	-	-	-	-	-	-	-	-
6	6	34	26	88	29	23	6	37	51
7	5	59	50	86	32	9	9	9	41
8	10	90	40	90	10	40	0	0	20
9	0	100	33	89	0	34	11	0	33
10	3	94	69	97	6	25	0	0	6

* 5th year standards
a Planted trees only
b Includes Natural Softwood Regeneration other than Balsam Fir
c Includes All Natural Softwood Regeneration

TABLE 5-82
DENSITY OF ALL NATURAL STEMS IN THIRD YEAR ASSESSMENT PLOTS
BY LICENSE FOR 1982 PLANTATIONS

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA)						
			NATURAL SOFTWOOD				NATURAL HARDWOOD		
			SPRUCE	PINE	FIR	OTHER	TOLERANT	INTOLERANT	OTHER
Upsalquitch	Mulligan Camp	101005832BP	23	23	532	0	1,331	14,307	347
	Cook Savoie	101T11882BP	80	0	3,629	0	0	159	16
	Jacquet River	101T12082BP	76	0	2,610	0	407	2,890	306
	McCormack Secon	101T12382BP	212	0	3,692	0	255	9,422	127
	Simpsons Field	101T12582BP	182	0	2,528	91	2,237	2,947	455
	Wildcat Road	101T12682BP	0	0	340	0	1,613	0	0
	Wildcat Road	101T12782BP	382	0	5,093	0	0	0	0
	Wildcat Road	101T12882BP	36	0	435	0	2,510	5,402	291
	Resource Road	101T12982BP	28	0	3,593	0	3,042	170	28
	Rocky Brook	101T13082BP	324	0	1,111	0	868	2,697	857
	Jacquet River	101T13182BP	80	0	3,151	64	207	3,151	557
	Eighteen Mile Bk.	101T13282BP	13	0	395	0	127	802	153
	Eighteen Mile Bk.	101T13382BP	64	0	2,504	0	403	912	21
	Eighteen Mile Bk.	101T13482BP	149	0	934	42	1,379	1,761	424
LICENSE AVERAGE			101	3	1,934	14	1,081	3,547	309
Nepisiguit	Red Pine	102003282BP	291	0	946	146	218	1,455	509
	E Branch Bass R.	102003382BP	1,130	64	6,128	1,639	2,467	2,085	430
	E Branch Bass R.	102003682BP	859	64	987	64	95	3,119	477
	Little River	102003782BP	164	55	691	18	891	2,583	2,092
	Doucette Road	102003882BP	255	28	849	184	2,943	7,965	1,061
	Forty Mile Bk.	102003982BP	16	16	111	80	1,942	2,165	525
	Rio Road	102004082BP	73	0	164	0	1,000	0	0
	Forty Mile Bk.	102T07282BP	0	0	0	0	0	637	0
	Forty Mile Bk.	102T07382BP	102	127	229	25	458	2,954	357
	Forty Mile Bk.	102T07482BP	541	0	1,210	0	1,783	2,292	477
	California Lake	102T07582BP	64	0	446	21	318	2,037	488
	Little River L	102T07682BP	18	0	764	0	2,528	3,110	346

TABLE 5-82. CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD TOLERANT	INTOLERANT	OTHER
Nepisiguit	Rio Road	102T07782BP	153	0	1,706	0	1,681	25	229
	W. 44 Mile Bk.	102T07882BP	21	0	3,088	0	870	509	0
	W. 44 Mile Bk.	102T07982BP	917	0	3,922	0	4,329	3,107	1,961
	W. 44 Mile Bk.	102T08082BP	36	0	2,456	0	1,892	4,347	0
	W. 44 Mile Bk.	102T08182BP	318	11	3,714	0	1,740	9,019	1,379
	Brunswick Mines	102T08382BP	286	53	1,772	0	1,157	3,692	170
	Rio Road	102T08482BP	48	0	637	0	2,101	1,401	32
	Arsenault Loop	102T08582BP	64	32	286	0	4,170	46,477	2,833
	Rio Road	102T08682BP	197	0	752	0	2,743	8,241	2,072
	TV Tower	102T08782BP	153	0	1,477	0	1,553	11,892	8,836
	Dunn Road	102T09082BP	707	156	1,103	85	3,112	5,645	764
	Wildcat Road	102T09182BP	0	0	946	0	1,546	5,839	527
	Wildcat Road	102T09282BP	382	127	5,284	0	3,565	6,175	191
	TV Tower	102T09382BP	1,146	0	1,673	0	218	7,585	8,094
LICENSE AVERAGE			299	26	1,659	100	1,751	4,172	1,241
Lower Miramichi	NBTabusintac	103003482BP	318	0	64	0	0	64	1,146
	Moores Brook	203004982BP	1,273	127	3,646	104	1,343	2,628	336
	Moores Brook	203005082BP	1,072	11	3,650	0	1,454	849	541
	Moores Brook	203005182BP	538	85	2,886	0	1,273	467	269
	Moores Brook*	203005282BP	2,292	0	509	0	2,547	255	891
	Moores Brook	203T10582BP	1,502	573	2,903	0	458	573	0
	West Sabbies	203T10682BP	1,377	139	1,262	0	764	324	394
	Lake Brook	203T10882BP	2,292	106	9,719	0	1,761	5,348	859
	Lake Brook	203T10982BP	729	35	2,766	0	1,551	729	0
	Fraser-Burch Rd.	203T11082BP	891	42	1,273	64	170	0	0
LICENSE AVERAGE			1,243	135	3,625	18	1,158	1,472	358

* Results based on 1 plot

TABLE 5-82. (CONTINUED)

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD TOLERANT	INTOLERANT	OTHER
Upper Miramichi	Big Nepis. R.	104T08882BP	58	12	2,107	0	174	7,721	1,921
	Bs Nepis. R.	104T08982BP	0	0	2,928	0	0	5,157	0
	Big Eskedelloc	204T11182BP	127	11	53	0	382	361	1,125
	E.B. Portage R.	204T11382BP	16	271	0	64	971	3,088	0
	Portage River*	204T11582BP	0	0	0	0	877	863	0
	Portage River	204T11682BP	414	0	127	0	286	414	891
	Tozer Brook	204T11782BP	23	0	23	0	3,044	1,227	347
LICENSE AVERAGE			74	42	534	9	996	2,582	737
Queens Charlotte	Leighton Brook	206005282BP	904	3,107	1,286	0	5,399	5,386	1,299
	Beaver Brook	306000582BP	1,963	85	6,748	0	1,241	5,326	817
	Trout Brook Air	306000682BP	1,305	711	4,700	11	1,836	3,236	488
	Trout Brook	306000782BP	64	127	10,313	0	1,464	8,722	1,082
	Pangburn	306T00482BP	509	216	178	0	3,425	10,644	166
	Grey Brook Burn	306T00782BP	0	51	0	0	713	331	102
	Nevers Brook	306T00982BP	1,261	700	484	0	4,023	3,552	2,101
	South Forks	306T01082BP	615	1,103	149	0	6,918	3,735	0
	Meadow Brook	306T01182BP	5,326	477	2,907	223	5,815	15,969	584
	Mountain Bk. Rd.	306T01482BP	2,404	1,178	2,005	0	2,907	2,504	987
	Mountain Brook	306T01682BP	1,825	127	127	85	1,867	3,013	127
	Langen Brook	306T01782BP	1,250	266	2,026	93	9,642	7,616	12
	Mountain Brook	306T01882BP	2,833	127	6,462	350	5,889	3,565	64
	Pomeroy	406002382BP	297	0	2,631	212	1,316	42	42
	Pomeroy	406002582BP	1,178	0	668	859	1,464	32	32
	Piskahegan Str.	406002682BP	564	55	1,364	273	382	0	55
	Mud Lake	406002882BP	0	0	0	0	5,284	3,629	191
	Mud Lake	406002982BP	127	0	76	0	3,005	17,036	331
	Lepreau Road	406F00282BP	2,101	127	0	0	2,992	12,605	255
	Pomeroy*	406T02482BP	2,037	382	14,642	11,459	127	0	0

* Results based on 1 plot

TABLE 5-82. CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD TOLERANT	INTOLERANT	OTHER
Queens Charlotte	Pomeroy	406T05082BP	3,565	509	15,916	637	1,019	0	0
	Magaguadavic R.	406T05182BP	102	0	51	76	1,375	25	815
	Kedron Stream	406T05282BP	6,738	435	4,807	4,308	1,825	13,412	1,284
	Kedron Stream	406T05382BP	1,830	159	1,082	4,504	987	6,398	1,082
	Mud Lake	406T05582BP	637	0	357	0	2,012	560	127
	Wildcat Lake	406T05682BP	1,632	81	498	0	4,676	4,109	671
	Wildcat Lake	406T05782BP	8,006	64	3,517	0	1,050	4,345	48
	S. Oromocto L.	406T05882BP	42	0	0	0	382	12,223	297
	S. Oromocto L.	406T05982BP	149	0	21	0	19,099	7,342	2,101
	Mud Lake	406T06082BP	64	0	64	0	5,029	7,894	700
	W Br Lepreau R.	406T06182BP	10,950	637	255	0	764	1,019	0
	W Br Lepreau R.	406T06282BP	3,905	212	127	0	424	891	637
	Cranberry Lake	406T06482BP	1,783	0	891	0	382	1,019	0
	Victoria Lake	406T06782BP	11,077	16	859	0	637	6,414	239
	Kedron Stream	406TNR382BP	6,112	127	3,119	1,337	127	6,494	509
LICENSE AVERAGE			3,056	436	2,151	542	3,529	6,031	633
Fundy	Little Salmon R.	307004182BP	127	0	912	0	233	912	85
	Victor Lake	307004282BP	42	0	127	0	1,570	1,401	0
	Square Lake	307004382BP	153	0	0	0	4,125	7,334	76
	Miller Brook	307004482BP	1,681	25	815	306	3,514	2,012	5,577
	N E Br Long Ck	307004582BP	1,910	0	4,966	25	2,317	1,833	1,884
	Shepody Road	307004682BP	42	0	340	0	594	1,995	0
	Perry Brook	307T00582BP	198	212	198	0	3,537	9,097	0
	Otter Brook	307T00682BP	318	21	1,592	0	573	1,167	255
	Watts Brook	307T00882BP	2,589	14	891	0	1,584	1,938	1,103
	Coy Road	307T01582BP	2,525	212	6,462	106	8,743	18,123	1,401
	Fire Tower Road	307T02082BP	1,952	117	509	0	6,706	9,549	7,374
	Porqupine Brook	307T02182BP	1,814	806	3,300	11	2,249	2,239	531
	Victor Lake	307T09582BP	85	0	849	0	0	1,783	0
	Victor Lake	307T09682BP	85	0	0	0	785	1,507	42

TABLE 5-82. CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD TOLERANT	INTOLERANT	OTHER
Fundy	Miller Brook	307T09782BP	1,443	149	2,992	0	2,822	1,846	8,594
	Shepody Road	307T09882BP	16	0	589	0	891	5,825	286
	Hamilton Lake	307T09982BP	21	0	340	0	233	4,223	1,188
	Watts Brook*	307TNR182BP	891	0	255	0	3,565	1,910	5,220
	Hamilton Lake*	307TNR282BP	0	0	0	0	0	10,568	127
	Glencoe	407F00182BP	891	91	6,148	0	1,692	12,623	1,437
	Crystal Lake	407T06982BP	5,459	32	2,340	525	1,942	16,711	462
	Crystal Stream	407T07082BP	10,207	149	488	0	1,867	10,483	212
LICENSE AVERAGE			1,640	125	1,824	49	2,725	6,337	1,630
York	Oromocto Lake	408003082BP	0	0	700	0	20,754	828	1,974
	Oromocto Lake	408003182BP	141	0	1,033	0	10,313	22,296	1,188
	Herlett Settlem.	408004782BP	127	51	1,604	0	2,623	13,624	127
	Joslin Brook	408004882BP	28	14	226	57	1,160	14	14
	Upper Niles Bk.	408T05482BP	51	13	1,528	688	1,744	0	102
	Oromocto lake	408T07182BP	594	0	1,146	1,358	12,223	1,019	552
	Herlett Settlem.	408T10082BP	243	58	2,616	0	2,384	12,385	116
	Herlett Settlem.	408T10282BP	91	18	1,328	0	3,019	109	91
	Seymour Br.	408T10382BP	85	0	3,310	0	976	1,698	113
	Charlie Lake	408T10482BP	95	16	430	16	4,011	2,085	812
LICENSE AVERAGE			127	21	1,523	149	4,017	6,547	361
Carleton	Ryan Brook	409000182BP	840	0	5,144	0	51	255	51
	Four Mile Brook	409000282BP	582	0	4,820	18	418	109	55
	Richardson Br.	409000382BP	85	0	297	21	3,862	3,544	997
	Richardson Br.	409000482BP	85	0	1,889	255	2,356	4,562	467
	Blowdown Brook	409T00182BP	32	0	1,082	0	2,801	3,788	1,050

* Results based on 1 plot

TABLE 5-82. CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD TOLERANT	INTOLERANT	OTHER
Carleton	Ryan Brook	409T00282BP	64	0	2,992	0	0	828	0
	Elliot Brook	409T00382BP	11	0	520	0	1,634	3,374	1,040
	Napadogan Lake	409T01282BP	229	0	942	0	688	9,957	3,412
	Ryan Brook	409T01382BP	91	0	1,692	0	527	1,692	236
LICENSE AVERAGE			189	0	1,844	29	1,626	3,224	858
Restigouche	MacFarlane Airs	510000882BP	0	0	0	0	637	340	0
Tobique	Halfway Depot	510000982BP	0	0	1,146	0	0	3,692	0
	Halfway Depot	510001082BP	0	0	42	0	0	3,226	0
	MacFarlane Airs	510001182BP	0	0	340	0	382	340	0
	Halfway Depot W	510001582BP	0	0	806	0	0	0	0
	Halfway Depot W	510001682BP	1,719	0	0	0	0	0	0
	Halfway Depot C	510001782BP	85	0	1,825	0	0	1,358	0
	Halfway Depot C	510001882BP	0	0	1,019	0	0	446	0
	Halfway Depot C	510001982BP	0	0	3,820	0	0	1,783	0
	Big Cedar Brook	510002082BP	0	0	2,037	0	191	0	0
	Big Cedar Brook	510002182BP	0	0	51	0	280	0	51
	Big Cedar Brook	510002282BP	0	0	0	0	85	0	0
	Head of Litt Fk	510T01982BP	89	0	1,235	0	13	4,482	13
	Head of Litt Fk	510T02282BP	0	0	2,356	0	0	9,677	1,464
	Thibodeau Brook	510T02482BP	42	0	297	0	509	849	0
	Thibodeau Brook	510T02582BP	0	0	382	0	637	3,501	0
	Halfway Depot E	510T02682BP	0	0	0	0	0	1,910	0
	Moose Valley Bk	510T02882BP	0	0	382	0	0	15,406	1,146
	Moose Valley Bk	510T02982BP	85	0	2,928	0	318	14,833	828
	Purvis Brook	510T03382BP	42	0	4,329	0	85	27,884	170
	Purvis Brook	510T03482BP	0	0	3,608	0	0	5,178	255
	Levesque Brook	510T03582BP	64	0	255	0	0	8,849	0
	Nine Mile Brook	510T03682BP	0	0	1,044	0	1,019	2,165	433
	Nine Mile Brook	510T03782BP	1,019	0	2,865	0	1,019	2,737	1,146
	Eight Mile Brook	510T03882BP	509	0	1,859	0	2,037	7,614	484
	Eight Mile Brook	510T03982BP	32	0	1,655	0	1,464	5,730	573

TABLE 5-82. CONTINUED

LICENSE	PLANTATION	SILVICULTURE TREATMENT NUMBER	DENSITY (STEMS/HA) NATURAL SOFTWOOD SPRUCE	PINE	FIR	OTHER	NATURAL HARDWOOD TOLERANT	INTOLERANT	OTHER
Restigouche	Big Cedar	510T04082BP	32	0	32	32	1,273	3,088	573
Tobique	Big Cedar	510T04182BP	0	0	0	64	0	4,902	0
	Big Cedar Brook	510T04282BP	0	42	0	0	0	127	0
	Big Cedar Brook	510T04382BP	0	0	0	0	0	2,642	0
	Big Cedar Brook	510T04482BP	0	0	64	0	1,210	509	0
	Big Cedar Brook	510T04582BP	0	0	0	0	0	0	0
	Big Cedar Brook	510T04782BP	0	0	0	0	0	0	0
	Big Cedar Brook	510T04882BP	0	0	28	0	0	1,103	71
	S Fork Falls Br	510T09482BP	1,666	11	10,600	0	53	212	0
LICENSE AVERAGE			246	2	1,919	2	357	3,610	185
PROVINCIAL AVERAGE			1,068	126	1,938	150	2,093	4,545	772

TABLE 6-82
PLANTATION ASSESSMENT SUMMARY
1982 PLANTATIONS

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Upsalquitch	101005482BP	C & H Plow	47	bS	BR	28	58	33	54	50
	101T11882BP	Shark Fin Barrels	95	jP	PP	6	72	11	68	53
	101T12082BP	Shark Fin Barrels	105	jP	PP	6	73	12	69	60
	101T12382BP	Shark Fin Barrels	53	jP	PP	5	66	14	57	52
	101T12582BP	C & H Plow	40	bS	PP	15	94	24	93	50
	101T12682BP	C & H Plow	32	bS	PP	16	89	24	84	43
	101T12782BP	C & H Plow	13	bS	BR	10	88	20	88	44
	101T12882BP	C & H Plow	32	bS	PP	14	98	21	95	39
	101T12982BP	Disc Trencher	80	bS	PP	14	91	23	86	48
	101T13082BP	Shark Fin Barrels	73	jP	PP	6	77	12	77	57
	101T13182BP	Shark Fin Barrels	69	jP	PP	5	86	12	83	50
	101T13282BP	C & H Plow	77	bS	PP	16	96	23	92	42
	101T13382BP	C & H Plow	130	bS	PP	12	97	22	92	47
	101T13482BP	C & H Plow	49	bS	PP	12	56	22	56	55
				jP	PP	14	95	28	87	77
Nepisiguit	102003282BP	Burn&Disc Trencher	33	bS	BR	29	68	31	54	38
				jP	PP	13	95	18	95	74
	102003382BP	C & H Plow	46	bS	BR	29	71	29+	63	39
	102003682BP	C & H Plow	29	bS	BR	20	83	23	79	30
	102003782BP	C & H Plow	90	bS	BR	25	64	26	56	38
	102003882BP	Disc Trencher	57	bS	BR	27	65	25+	63	31
	102003982BP	C & H Plow	62	bS	BR	31	44	31	38	39
	102004082BP	C & H Plow	54	bS	BR	35	81	35+	57	42
	102T07282BP	C & H Plow	7	bS	BR	15	81	15	81	49
	102T07382BP	Disc Trencher	34	bS	PP	18	88	18	83	26

+ Rabbit Damage

TABLE 6-82. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Nepisiguit				jP	PP	15	98	17	95	77
	102T07482BP	Disc Trencher	32	jP	PP	14	81	16	72	52
	102T07582BP	C & H Plow	40	bS	PP	15	66	14	45	30
				jP	PP	13	100	12	87	33[1]
	102T07682BP	C & H Plow	44	jP	PP	14	75	7	45	24
	102T07782BP	C & H Plow	42	bS	PP	13	89	9	68	22
				jP	PP	12	81	9	48	38
	102T07882BP	Shark Fin Barrels	158	bS	PP	13	96	21	87	34
	102T07982BP	Shark Fin Barrels	95	bS	PP	14	95	22	92	37
	102T08082BP	Shark Fin Barrels	98	bS	PP	16	94	22	90	41
	102T08182BP	Shark Fin Barrels	124	bS	PP	15	95	27	94	47
	102T08382BP	Burn & C & H Plow	153	bS	PP	15	70	21	61	52
	102T08482BP	C & H Plow	48	bS	PP	13	75	16	67	33
	102T08582BP	Disc Trencher	15	bS	PP	13	82	18	67	29
	102T08682BP	C & H Plow	79	bS	PP	15	84	19	69	40
	102T08782BP	Shark Fin Barrels	48	jP	PP	6	81	10	80	48
	102T09082BP	C & H Plow	94	tL	PP	9	74	20	71	76
	102T09182BP	C & H Plow	106	tL	PP	9	69	24	56	73
	102T09282BP	C & H Plow	48	tL	PP	9	70	21	57	83
	102T09382BP	Shark Fin Barrels	80	jP	PP	6	86	9	85	45
Lower Miramichi	103003482BP	C & H Plow	7	bS	BR	31	50	34	44	41
	203004982BP	C & H Plow	117	bS	BR	21	83	23	73	36
	203005082BP	C & H Plow	97	bS	BR	37	93	40	87	60
				rP	BR	12	78	14	56	24
	203005182BP	C & H Plow	77	rP	BR	14	65	18	45	44
	203005282BP*	C & H Plow	190	bS	BR	30	100	38	82	61
	203T10582BP	C & H Plow	336	bS	PP	15	95	17	91	47

* Results based on 1 plot

TABLE 6-82. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Lower Miramichi	203T10682BP	C & H Plow	115	bS	PP	8	84	14	78	38
	203T10882BP	C & H Plow	140	bS	PP	10	84	17	79	55
	203T10982BP	C & H Plow	300	jP	PP	9	61	18	59	69
	203T11082BP	Burn	31	jP	PP	11	82	18	78	72
Upper Miramichi	104T08882BP	Burn&Disc Trencher	90	jP	PP	5	91	11	87	37
	104T08982BP	Burn&Disc Trencher	27	jP	PP	5	96	11	86	61
	204T11182BP	C & H Plow	146	wS	PP	14	88	35	88	91
				jP	PP	16	79	28	78	85
	204T11382BP	Burn	162	bS	PP	14	73	17	67	51
	204T11582BP*	Burn	3	jP	BR	15	100	38	100	89
	204T11582BP	Burn	70	jP	PP	8	92	13	91	68
	204T11682BP	Burn	25	bS	PP	11	94	14	90	35
	204T11782BP	Burn	165	bS	PP	15	94	16	91	51
Queens Charlotte	206005282BP	Crusher	110	bS	BR	24	74	27	68	47
	206005282BP	Crusher	80	wS	BR	21	69	25	62	39
	306000582BP	C & H Plow	47	bS	BR	25	73	28	72	42
	306000682BP	C & H Plow	21	bS	BR	21	71	26	66	39
	306000682BP	C & H Plow	47	wS	BR	15	59	16	52	24
	306000782BP	C & H Plow	5	bS	BR	17	77	23	58	31
	306T00482BP	C & H Plow	116	bS	PP	9	75	15	62	35
	306T00782BP	Burn & C&H Plow	14	bS	PP	9	90	15	89	31
	306T00982BP	C & H Plow	47	bS	PP	8	81	12	79	28
	306T00982BP	C & H Plow	102	jP	PP	4	91	12	86	49
	306T01082BP	C & H Plow	38	bS	PP	9	96	10	89	34
	306T01182BP	C & H Plow	87	bS	PP	9	92	15	90	42
				jP	PP	5	90	14	89	64

* Results based on 1 plot

TABLE 6-82. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Queens Charlotte	306T01482BP	C & H Plow	73	bS	PP	9	92	14	90	29
				jP	PP	3	94	13	92	64
	306T01682BP	C & H Plow	46	jP	PP	4	100	12	100	58
	306T01782BP	C & H Plow	90	bS	PP	6	87	12	85	19
				jP	PP	6	95	15	82	43
	306T01882BP	C & H Plow	25	jP	PP	5	86	12	77	28
	406002382BP	Shark Fin Barrels	14	wS	BR	14	60	17	55	28
	406002582BP	Shark Fin Barrels	59	jP	BR	19	95	20	76	74
	406002682BP	Shark Fin Barrels	43	bS	BR	14	88	13+	65	37
				rP	BR	17	81	18	60	63
	406002882BP	Shark Fin Barrels	14	bS	BR	39	96	45	96	72
				wS	BR	13	65	21	53	48
	406002982BP	Shark Fin Barrels	32	jP	BR	16	91	23	82	90
				rP	BR	20	86	44	86	108
	406F00282BP	Disc Trencher	25	bS	BR	24	94	31	92	56
	406T02482BP*	Shark Fin Barrels	8	bS	BR	36	100	37	100	59
	406T05082BP	Shark Fin Barrels	8	jP	PP	6	93	7	73	58
	406T05182BP	Shark Fin Barrels	80	jP	PP	8	89	18	88	46
	406T05282BP	Shark Fin Barrels	92	bS	SB	17	88	21	80	59
	406T05382BP	Shark Fin Barrels	76	jP	PP	7	84	14	73	57
	406T05582BP	Shark Fin Barrels	43	bS	PP	8	91	16	82	45
				bS	SB	16	95	25	87	69
	406T05682BP	Shark Fin Barrels	113	jP	PP	8	96	22	94	86
	406T05782BP	No-site Preparation	53	jP	PP	10	97	20	92	76
	406T05882BP	Shark Fin Barrels	23	bS	PP	7	79	15	73	40
	406T05982BP	Shark Fin Barrels	41	bS	PP	11	94	29	92	78

+ Rabbit Damage
* Results based on 1 plot

TABLE 6-82. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Queens Charlotte	406T06082BP	Shark Fin Barrels	26	bS	PP	12	96	34	92	66
				wS	BR	15	79	19	68	44
	406T06182BP	Shark Fin Barrels	2	bS	PP	11	80	17	80	35
	406T06282BP	Shark Fin Barrels	12	bS	SB	16	88	22	79	44
	406T06482BP	Shark Fin Barrels	10	wS	PP	11	83	17	87	48
	406T06782BP	No-site Preparation	260	jP	PP	9	97	19	97	68
	406TNR382BP	Shark Fin Barrels	1	bS	SB	16	86	19	86	49
Fundy	307T04182BP	C & H Plow	31	bS	BR	39	91	42	85	72
	307T04282BP	C & H Plow	120	bS	BR	29	91	37	86	62
	307T04382BP	Shark Fin Barrels	29	bS	BR	29	80	34	77	50
	307T04482BP	Crusher	40	bS	BR	32	64	33	52	63
				jP	SB	10	89	25	89	78
	307T04582BP	Crusher	16	bS	BR	35	58	38	53	74
	307T04682BP	C & H Plow	69	bS	BR	40	100	40	95	56
	307T00582BP	C & H Plow	116	bS	PP	10	88	17	84	33
	307T00682BP	C & H Plow	90	bS	PP	8	68	15	63	35
	307T00882BP	C & H Plow	145	bS	PP	7	78	16	72	34
	307T01582BP	C & H Plow	114	bS	PP	9	70	15	66	34
	307T02082BP	C & H Plow	94	jP	PP	8	91	15	89	57
	307T02182BP	C & H Plow	125	jP	PP	6	79	14	76	58
	307T09582BP	C & H Plow	28	jP	SB	14	100	24	97	79
	307T09682BP	C & H Plow	53	bS	PP	10	89	16	84	50
	307T09782BP	Crusher	26	jP	SB	13	90	26	88	95
	307T09882BP	C & H Plow	115	bS	BR	36	100	38	100	66*
				bS	PP	10	97	15	91	47
	307T09982BP	C & H Plow	73	jP	SB	18	83	25	74	76
	307TNR182BP*	C & H Plow	1	bS	PP	8	88	11	38	34
	307TNR282BP*	C & H Plow	1	jP	SB	22	100	34	100	58

* Results based on 1 plot

TABLE 6-82. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Fundy	407F00182BP	C & H Plow	46	jP	PP	14	82	29	82	80
	407T06982BP	Burn & Shark Fin Barrels	54	bS	PP	8	100	19	100	88
	407T06982BP	No-site Preparation	54	jP	PP	10	97	21	97	86
	407T07082BP	No-site Preparation	77	jP	PP	8	99	19	99	79
York	408003082BP	Shark Fin Barrels	12	bS	BR	37	83	36+	58	60
	408003182BP	Shark Fin Barrels	60	rP	BR	21	73	21	51	47
	408004782BP	Shark Fin Barrels	76	bS	BR	38	64	40	64	75
				jP	BR	17	79	17+	67	68
				rP	BR	14	59	13+	31	35
	408004882BP	Burn & Shark Fin Barrels	90	bS	BR	30	76	34	68	60
				bS	PP	12	73	23	68	48
	408T05482BP	Shark Fin Barrels	102	bS	PP	10	70	19	60	43
	408T07182BP	Shark Fin Barrels	20	bS	PP	10	74	12	60	37
	408T10082BP	Shark Fin Barrels	6	bS	PP	12	91	8+	86	46
	408T10282BP	Shark Fin Barrels	68	bS	PP	16	89	14+	85	53
	408T10382BP	Shark Fin Barrels	106	bS	PP	12	87	11+	84	65
	408T10482BP	Disc Trencher	80	bS	PP	6	74	15	71	33
Carleton	409000182BP	Shark Fin Barrels	29	bS	BR	29	66	29	62	46
	409000282BP	Burn & C&H Plow	36	rP	BR	20	95	21	49	31
	409000382BP	Shark Fin Barrels	34	bS	BR	21	85	22	75	39
	409000482BP	Shark Fin Barrels	24	wS	BR	21	85	22	74	51
	409T00182BP	Shark Fin Barrels	75	bS	PP	15	88	22	79	51
	409T00282BP	Shark Fin Barrels	14	bS	BR	26	100	27	100	44*
				bS	PP	17	89	18	89	51*
				wS	BR	19	84	19+	84	46
	409T00382BP	Shark Fin Barrels	68	bS	PP	11	81	20	71	45

+ Rabbit Damage
* Results based on 1 plot

TABLE 6-82. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Carleton	409T01282BP	Burn & C&H Plow	14	jP	PP	6	88	15	88	58
	409T01382BP	Shark Fin Barrels	38	bS	PP	19	91	29	87	72
				jP	PP	9	70	19	67	63
Restigouche Tobique	5100008828P	C & H Plow	17	bS	PP	17	92	21	69	36
				wS	PP	17	61	15	37	26
	5100009828P	C & H Plow	6	bS	BR	33	100	37	100	57*
				wS	BR	29	100	29	100	47*
	5100010828P	C & H Plow	6	bS	BR	34	100	40	84	73
				wS	BR	31	100	35	100	52
	5100011828P	C & H Plow	17	bS	BR	34	91	42	83	72
				bS	PP	16	67	19	50	40
				wS	BR	30	88	38	75	68
	5100015828P	C & H Plow	20	bS	BR	32	91	35	70	71
				wS	BR	32	100	39	100	67*
	5100016828P	C & H Plow	8	bS	BR	17	53	19	47	43
				wS	BR	17	73	19	64	38
	5100017828P	C & H Plow	10	bS	BR	18	77	25	0	0*
				wS	BR	22	100	24	100	40
	5100018828P	C & H Plow	13	bS	BR	40	100	42	100	83*
				wS	BR	21	100	23	30	27*
	5100019828P	C & H Plow	14	bS	BR	36	94	41	94	80
	5100020828P	Burn&Disc Trencher	8	wS	BR	19	87	22	87	46
	5100021828P	Disc Trencher	4	wS	BR	31	92	33	88	53
	5100022828P	Disc Trencher	13	wS	BR	40	100	40	94	66
	510T01982BP	C & H Plow	26	bS	PP	7	99	8	92	32
	510T02282BP	C & H Plow	105	bS	PP	6	96	5+	54	16
	510T02482BP	C & H Plow	30	bS	PP	13	75	11+	25	31

+ Rabbit Damage
* Results based on 1 plot

TABLE 6-82. CONTINUED

License	Plantation	Site Preparation	Area (ha)	Species	Stock Type	INITIAL YEAR Height (cm)	FIRST YEAR Survival (%)	FIRST YEAR Hgt. (cm)	THIRD YEAR Survival (%)	THIRD YEAR Hgt. (cm)
Restigouche	510T02482BP	C & H Plow		wS	PP	10	68	11	32	30
Tobique	510T02582BP	C & H Plow	4	bS	PP	10	80	17	50	34
				wS	PP	12	100	17	100	36
	510T02682BP	C & H Plow	6	bS	PP	7	94	12	82	39
	510T02882BP*	C & H Plow	19	bS	PP	11	100	12	53	26
	510T02982BP	C & H Plow	99	bS	PP	10	95	13	69	22
	510T03382BP	Disc Trencher	30	bS	PP	3	88	12	81	29
	510T03482BP	Disc Trencher	23	bS	PP	3	92	11	84	39
				tL	PP	28	88	40	88	87
	510T03582BP	Disc Trencher	16	bS	PP	12	96	13	54	22
	510T03682BP	Shark Fin Barrels	65	bS	PP	10	96	12	81	34
				wS	PP	6	89	8	65	23
	510T03782BP	Shark Fin Barrels	17	bS	PP	13	96	10+	65	22
				wS	PP	13	100	12	88	26*
	510T03882BP	Disc Trencher	55	bS	PP	13	98	14	95	36
	510T03982BP	Disc Trencher	30	bS	PP	11	92	14	72	38
	510T04082BP	Disc Trencher	29	bS	PP	10	79	13	57	33
	510T04182BP	Disc Trencher	11	bS	PP	14	100	14	79	38
	510T04282BP	Burn&Disc Trencher	36	wS	PP	11	83	13	75	37
	510T04382BP	Burn&Disc Trencher	44	wS	PP	13	88	17	82	42
	510T04482BP	Burn&Disc Trencher	31	wS	PP	12	96	16	81	47
	510T04582BP	Burn&Disc Trencher	24	bS	PP	13	92	14	86	42
	510T04582BP	Disc Trencher	24	wS	BR	19	95	21	95	43
	510T04782BP	Disc Trencher	15	bS	PP	15	87	16	73	40
	510T04882BP	Shark Fin Barrels	82	bS	PP	17	89	18	84	41
				wS	PP	14	82	14+	63	36
	510T09482BP	C & H Plow	39	bS	PP	13	92	23	84	60

+ Rabbit Damage
* Results based on 1 plot

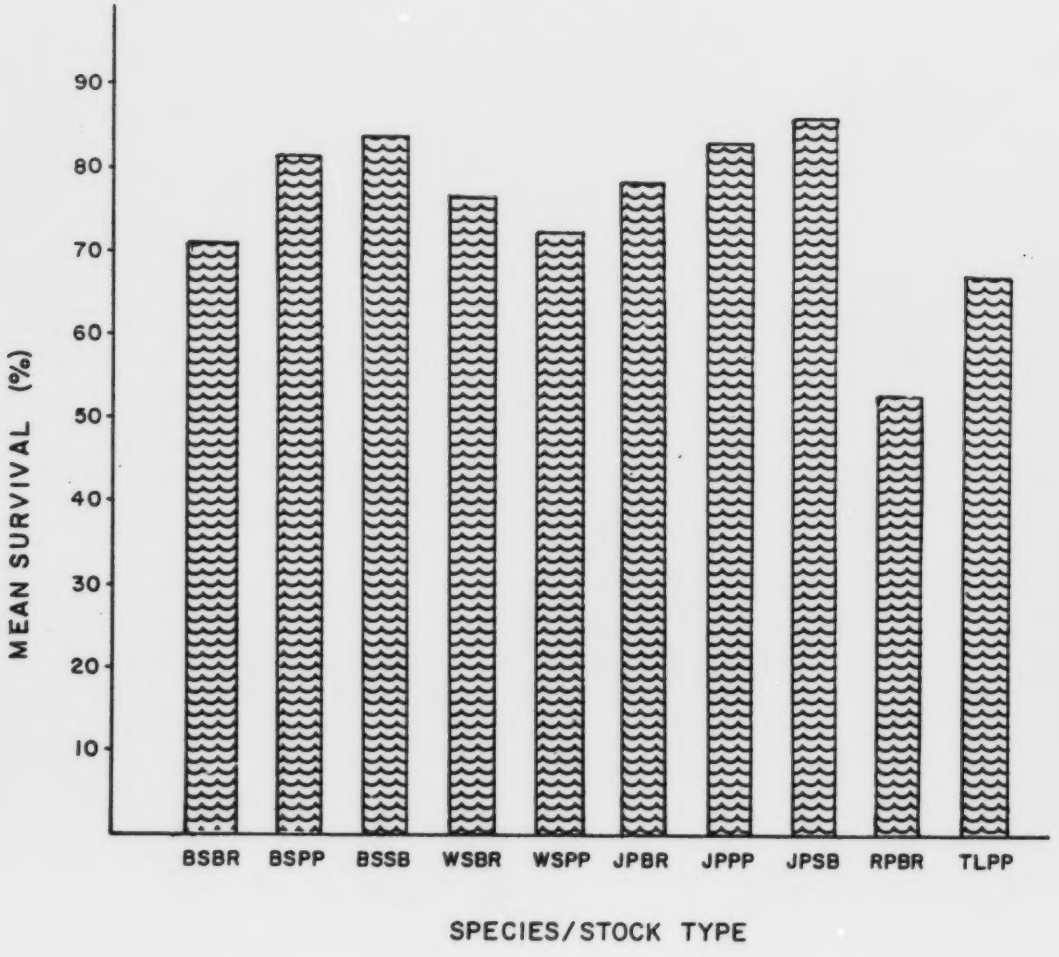

FIGURE I-82. Third year mean survival percentages for planted trees grouped by species and stock type - 1982 Plantations.

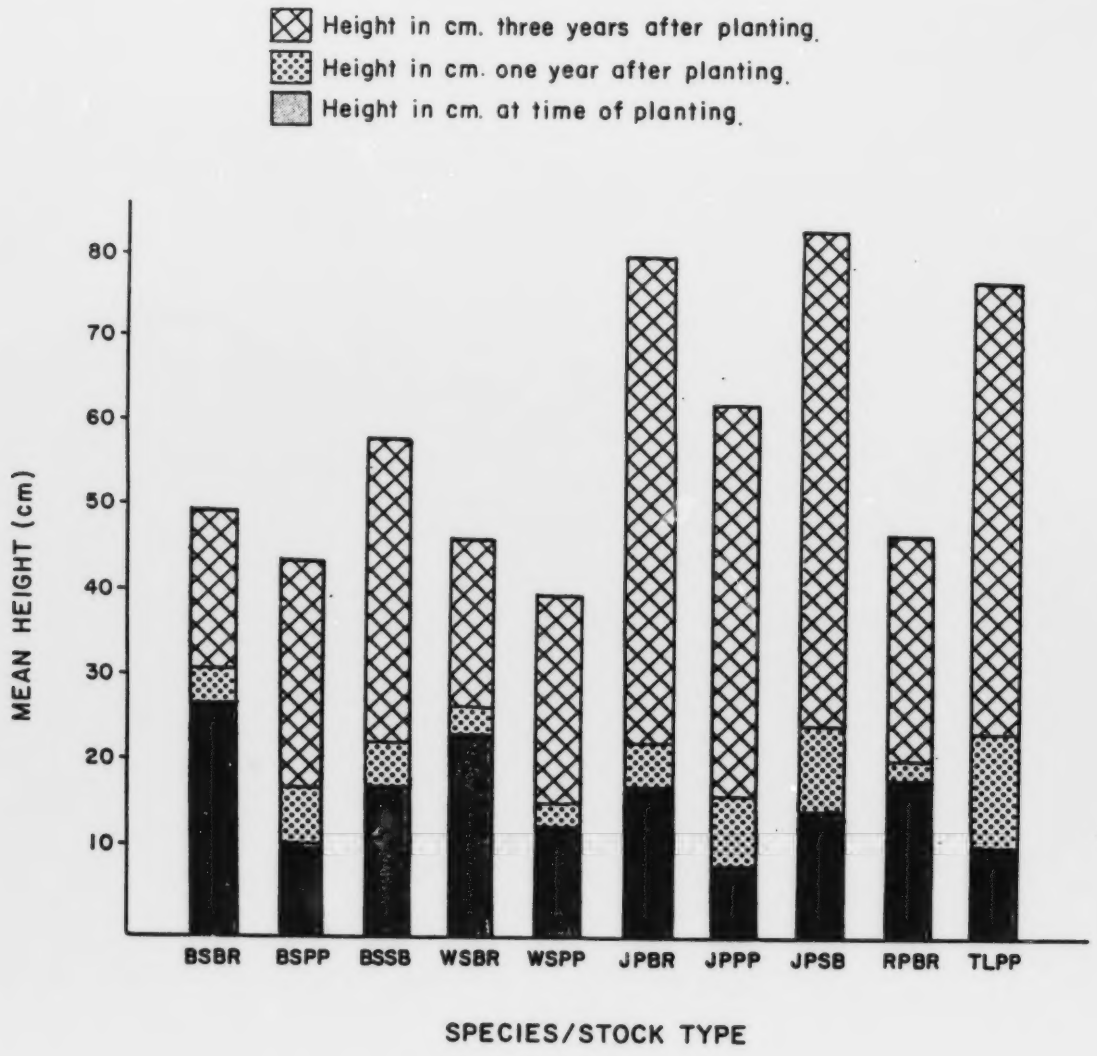

FIGURE 2-82 . Mean heights for three year old planted trees grouped by species and stock type — 1982 Plantations.